ents recorded during 2004. Approximate altitudes are indicated on the right.

Nertical lines indicate the average VMR from each time period.

Itaneous ACE (Atmospheric Chemistry Experiment) u ic CO, C₂H₆, HCN, CH₃CI, CH₄, C₂H₂, CH₃OH, HCOOH, a rements show plumes up to 185 ppbv (10⁻⁹ per unit vo ppbv for C₂H₆, 755 pptv (10⁻¹² per volume) for CH₄, 0.1 H₂, 3.89 ppbv for CH₃OH, 0.843 ppbv for HCOOH, and CS in western Canada and Alaska at 50°N-68°N latitude June and 23 July 2004. Enhancement ratios and emis HCOOH, CH₃OH, HCN, C₂H₆, and OCS relative to CO at inferred from measurements of young plumes compa mixing ratios assumed to represent background condi CO emission factor derived from boreal measurement generally consistent with the limited data reported for etative types and emission phases measured in extra ests including boreal forests. The low correlation bety emission mixing ratios and the SF₆ mixing ratio is

with no significant SF₆ emissions from the biomass fir